

10/694614

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. P-302 (MSU)	SERIAL NO. 08/302,423
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT: Robert R. Brubaker et al.	
		FILING DATE: 9/8/94	GROUP: 1645
OTHER DOCUMENTS (Continued)			
<i>JP</i>	Microbial Pathogenesis, "Transcription of the yop regulon from Y. enterocolitica requires trans acting pYV & Chromosomal genes", G. Cornelis et al., 1987, 2:367-379		
<i>JP</i>	Molecular Microbiology, "The Surface-Located YopM Protein Is Involved In Calcium Signal Transduction in Yersinia Pseudotuberculosis", 1991, 5(4), 977-986		
<i>JP</i>	Science, Vol. 249, August 1990, "Protein Tyrosine Phosphatase Activity of an Essential Virulence Determinant in Yersinia", K. Guan and J.E. Dixon, p.553-556		
<i>JP</i>	"The Pigmentation of Pasteurella Pestis On a Defined Medium Containing Haemin", S. Jackson & T.W. Burrows, 1956, p. 570-576		
<i>JP</i>	Brit. J. Exp. Path. 37:597-583, "The Virulence-Enhancing Effect Of Iron On Non-Pigmented Mutants Of Virulent Strains Of Pasteurella Pestis", S. Jackson and T.W. Burrows		
<i>JP</i>	Infection and Immunity, Oct. 1990, Vol. 58, No. 10, "YopM Inhibits Platelet Aggregation and Is Necessary for Virulence of Yersinia Pestis in Mice", Ka Yin Leung et al., p. 3262-3271		
<i>JP</i>	In Protein Measurement With Folin Reagent, "Protein Measurement With The Folin Phenol Reagent", O.H. Lowry et al., 1931, p. 265-275		
<i>JP</i>	Microbial Pathogenesis, 1987, "Modulation of the Low-Calcium Response in Yersinia Pestis via Plasmid-Plasmid Interaction", A.K. Sample et al. 2:442-453		
<i>JP</i>	Microbial Pathogenesis, "Expression Of the Low Calcium Response In Yersinia Pestis", R.J. Mehlig et al., 1989, 6: 203-217		
<i>JP</i>	J. of Bacteriology, March 1991, "Secretion of Hybrid Proteins by the yersinia Yop Export System", p. 1677-1685		
<i>JP</i>	In A.V. Naumov (ed.), Microbiology and biochemistry of particularly dangerous infections, Anti-Plague Institute "Microbe" Press, Saratov, Russia, p. 3-11		
<i>JP</i>	J. of Bacteriology, Aug. 1991, Vol. 173, No. 16, "Analysis of virC, an Operon Involved in the Secretion of Yop Proteins by Yersinia enterocolitica", p. 4994-5009		
<i>JP</i>	Infection and Immunity, Sept. 1990, "Secretion of Yop Proteins by Yersiniae", T. Michiels et al., p. 2840-2849		
Examiner	<i>Padra B. B. B.</i>		Date Considered 11/22/04
Examiner: Initial if references considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. P-302 (MSU)	SERIAL NO. 08/302,423
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT: Robert R. Brubaker et al.	
		FILING DATE: 08/302,423	GROUP: <u>1615</u>
OTHER DOCUMENTS (Continued)			
<u>PA</u>	Analytical Biochemistry 117, 307-310 (1981) "Silver Stain for Proteins in Polyacrylamide Gels: A Modified Procedure with Enhanced Uniform Sensitivity, J.H. Morrissey		
<u>PA</u>	Infection and Immunity, April 1983, "Vwa+ Phenotype of Yersinia enterocolitica", R.D. Perry and R.R. Brubaker, Vol. 40, No. 1, p. 2840-2849		
<u>PA</u>	Infection and Immunity, November 1986, "A Low-Ca ²⁺ Response Operon Encodes the V Antigen of Yersinia Pestis", R.D. Perry et al., Vol 54, No. 2, p.428-434		
<u>PA</u>	Infection and Immunity, August 1988, "Inhibition of Phagocytosis in Yersinia Pseudotuberculosis: a Virulence Plasmid-Encoded Ability Involving the Yop2b Protein", R. Rosqvist et al., p. 2139-2143		
<u>PA</u>	Science, Vol. 258, November 1992, "A Surface Protease and the Invasive Charactger of Plague", O.A. Sodeinde et al. p.1004-1007		
<u>PA</u>	Infection and Immunity, April 1982, Vol. 36, No. 1, "Localization in Yersinia Pestis of Peptides Associated With Virulence", S.C. Straley and R.R. Brubaker, p. 129-135		
<u>PA</u>	Infections and Immunity, April 1989, Vol. 57, No. 4, "Differential Clearance and Host-Pathogen Interactions of YopE ⁻ and YopK ⁻ YopL ⁻ Yersinia Pestis in BALB/c Mice", S.C. Straley et al., p. 1200-1210		
<u>PA</u>	Applied Microbiology, November 1969, Vol. 18, No. 5, "Congo Red-Agar Plating Medium for Detecting Pigmentation in Pasteurella Pestis", M.J. Surgalla and E.D. Beesley, p. 834-837		
<u>PA</u>	J. of Bacteriology, Sept. 1979, Vol. 139, No. 3, "Consequences of Ca ²⁺ + Deficiency on Macromolecular Synthesis and Adenylate Energy Charge in Yersinia Pestis", R.J. Zahorchhak et al., p. 792-799		
Examiner	<u>D. Anna Berles</u>	Date Considered	<u>4/22/04</u>
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FORM PTO-1449 (MODIFIED)

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.
MSUN 0105 PUSSERIAL NO.
08/203,434

10/694614

APPLICANT
Robert R. Brubaker, et alFILING DATE
September 8, 1994GROUP
1804

1645

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PA	AA	3 1 3 7 6 2 9	06-16-64	Cocking, et al	↓	↓	
PA	AB	4 4 5 5 1 4 2	06-19-84	Martins, et al	↓	↓	
PA	AC	5 2 1 3 7 9 6	05-25-93	Garcea, et al	↓	↓	
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PA	AR	Bergman, T., et al. "Analysis of the V antigen <i>lcrGVH-yop80</i> operon of <i>Yersinia pseudotuberculosis</i> : Evidence of a regulatory role of <i>LcrH</i> and <i>LcrV</i> ". J. BACTERIOL. 173:1607-1616, 1991
PA	AS	Bolin, I., and H. Wolf-Matz. "The plasmid-encoded Yop2b protein of <i>Yersinia pseudotuberculosis</i> is a virulence determinant regulated by calcium and temperature at transcriptional level". MOL. MICROBIOL. 2:237-245, 1988
PA	AT	Brubaker, R.R. "The V antigen of yersiniae - an overview". CONTRIB. MICROBIOL. IMMUNOL., 12: 127-133, 1991

EXAMINER

Radna Bollen

DATE CONSIDERED

4/22/04

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FORM PTO-1449 (MODIFIED)

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ATTY. DOCKET NO.
NSUN 0105 PLUSSERIAL NO.
087302,423APPLICANT
Robert R. Brubaker, et alFILING DATE
September 8, 1994GROUP
1804

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Brubaker, R.R. 1991. "Factors promoting acute and chronic diseases caused by yersiniae". CLIN. MICROBIAL. Rev. 4:309-324.
AS	Brubaker, R.R., A.K. Sample, D.-Z. Yu, R.J. Zahorchak, P.C. Hu, and J.M. Fowler. 1987. "Proteolysis of Y antigen from <i>Yersinia pestis</i> ". MICROB. PATHOG. 2:49-62.
AT	Burrows, T.M. 1956. "An antigen determining virulence in <i>Pasteurella pestis</i> ." Nature (London) 177:426-427.

EXAMINER

DATE CONSIDERED

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	APPLICANT Robert R. Brubaker, et al	
	FILING DATE September 8, 1994	GROUP 1645

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS					
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		OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)
AR		Burrows, T.V., et al. 1958. "The Basis of virulence in Pasteurella pestis: an antigen determining virulence". BRIT. J. EXP. PATHOL. 37:481-493
AS		Burrows, T.V., et al. 1960. "V and U antigens in strains of Pasteurella pseudotuberculosis". BR. J. EXP. PATHOL. 41:38-44.
AT		Carter, P.B., et al. 1980. "Plague virulence antigens from Yersinia enterocolitica". INFECT. IMMUN. 28:638-640

EXAMINER Rodina Belkas	DATE CONSIDERED 4/22/04
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FORM PTO-1442 (MODIFIED)

LIST OF PATENTS AND PUBLICATIONS FOR
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STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.
MSLN 0105 PUSSERIAL NO.
08/302,423APPLICANT
Robert R. Brubaker, et alFILING DATE
September 8, 1994GROUP
1806

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Ferber, D.N., et al. 1981. "Plasmids in Yersinia pestis" INFECT. IMMUN. 31:839-841
AS	Fetherston, J.D., et al. 1992. "Loss of the pigmentation phenotype in Yersinia pestis is due to the spontaneous deletion of 102kb, etc." MOL. MICROBIOL 6:2693-2704
AS	Chernetzky, V.T., et al. 1982. "RNA synthesis in Yersinia pestis during growth restriction in calcium deficient medium." J. BACTERIOL. 149:1089-1095.

EXAMINER

Padma Borkar

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4/22/04

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FORM PTO-1449 (MODIFIED)

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NSUM 0105 PUSSERIAL NO.
08/302,423APPLICANT
Robert R. Brubaker, et alFILING DATE
September 8, 1994GROUP
1806

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Sandecha, A.R., et al. 1992. "Production and secretion of a bifunctional staphylococcal protein A: antiphytochrome single-chain Fv fusion protein in Escherichia coli" GENE 122:361-365.
AS	Grodberg, J., and J.J. Dunn 1988 "ompI encodes the Escherichia coli outer membrane protease that cleaves T7 RNA polymerase during purification". J. BACTERIOL. 170:1245-1253
AT	Bakansson, S., et al 1993 "YopB and YopD constitute a novel class of Yersinia Yop proteins." INFECT. IMMUN. 61:71-80.

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08/302,423

10/694614

APPLICANT
Robert R. Brubaker, et alFILING DATE
September 8, 1994GROUP
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REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Leung, K.Y., and S.C. Straley 1989. "The yopM gene of <i>Yersinia pestis</i> encodes a released protein having homology with the human platelet surface protein GPIb". J. BACTERIOL. 171:4623-4632.
	AS	Laxton, W.D., et al 1963. "Biosynthesis and purification of V and W antigen in <i>Pasteurella pestis</i> ." J. IMMUNOL. 91:179-184.
	AT	

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Rodina Beller

DATE CONSIDERED

10/694614

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FORM PTO-1442 (MODIFIED)

LIST OF PATENTS AND PUBLICATIONS FOR
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(Use several sheets if necessary)

ATTY. DOCKET NO.
MSUM 0105 PUSSERIAL NO.
08/302,423

10/694,614

APPLICANT
Robert R. Brubaker, et alFILING DATE
September 8, 1994GROUP
1805

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REFERENCE DESIGNATION




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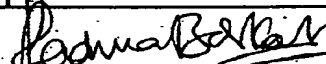
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Lucier, T.A., and R.R. Brubaker. 1992. "Determination of genome size, macrorestriction pattern polymorphism, and nonpigmentation-specific deletion in Yersinia pestis by pulsed-field gel electrophoresis." J. BACTERIOL. 174:2078-2086.
	AS	Lewenadler, B., et al 1987. "A gene fusion system for generating antibodies against short peptides." GENE 58:87-97.
	AT	Behigh, R.J. and R.R. Brubaker. 1993. "Major stable peptides of Yersinia pestis synthesized during the low-calcium response". INFECT. IMMUN. 61:13-22

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DATE CONSIDERED

4/22/04

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ATTY. DOCKET NO.
MSUN 0105 PUSSERIAL NO.
08/302,423

10/694616

APPLICANT
Robert R. Brubaker, et alFILING DATE
September 8, 1994GROUP
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REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Nichols, T., and G. Cornells. 1988. "Nucleotide sequence and transcription analysis of yop51 from Yersinia enterocolitica U22703" MICROB. PATHOG. 5:449-459.
AS	Motin, V.L., et al. 1991. "The difference in the igrV-sequences between Y. pestis and Y. pseudotuberculosis, etc." MICROB. PATHOG. 12:165-175.
AT	Mulder, B., et al. 1989. "Identification of additional virulence determinants of the pTV plasmid of Yersinia enterocolitica U227" INFECT. IMMUN. 57:2534-2541

EXAMINER

DATE CONSIDERED

Ladna Boyer

4/22/04

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ATTY. DOCKET NO.
NSUM 0105 PUS

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APPLICANT
Robert R. Brubaker, et alFILING DATE
September 8, 1994

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REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Makajima, R., and R. R. Brubaker. 1993. "Association between virulence of Yersinia pestis and suppression of gamma interferon and tumor necrosis factor alpha." INFECT. IMMUN. 61:23-31.
AS	Nilsson, B., L. Abrahamson, and H. Uhlen. 1985. "Immobilization and purification of enzymes with staphylococcal protein A gene fusion vectors." EMBO J. 4:1075-1080
AT	Price, S.B., et al. "The V antigen is a regulator protein necessary for the Ca ²⁺ -dependent growth, etc." J. BACTERIOL. 173:2649.

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Rama Bertaux

DATE CONSIDERED

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	APPLICANT Robert R. Brubaker, et al	
	FILING DATE September 8, 1994	GROUP 3896 1645

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS						
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AR		Reisner, B.S. and S.C. Straley. 1992. "Yersinia pestis YopM: Thrombin binding and overexpression." INFECT. IMMUN. 60:5242-5252.					
	AS		Price, S.B., et al. 1989. "Molecular analysis of 1crGVN, the V operon of Yersinia pestis." J. BACTERIOL. 171:5646-5653.					
	AT		Rosqvist, R., et al. 1990. "The Cytotoxic Yop E of Yersinia obstructs the primary host defense." MOL. MICROBIOL. 4:657.					

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NSUN 0105 PUSSERIAL NO.
88/302,423APPLICANT
Robert R. Brubaker, et alFILING DATE
September 8, 1994GROUP
1886

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

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	AR	Rooqvist, R., et al. 1991. "Intracellular targeting of the Yersinia Yope cytotoxin in mammalian cells induces actin microfilament disruption." INFECT. IMMUN. 59:4562-4569.
	AS	Sato, K., R. Makinim, et al. 1991. "Preparation of monoclonal antibody to V Antigen from Yersinia pestis." CONTRIB. MICROBIOL. IMMUNOL. 12:225-229
	AT	Sampe, A.K., et al. 1987. "Posttranslational regulation of Lcr plasmid-mediated peptides in pesticinogenic Yersinia pestis." MICROB. PATHOG. 3:239-248

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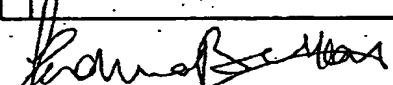
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FORM PTO-1449 (MODIFIED) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT. (Use several sheets if necessary)	ATTY. DOCKET NO. NSUN 0105.PUS	SERIAL NO. 08/302,423-10/694611
	APPLICANT Robert R. Brubaker, et al	
	FILING DATE September 8, 1994	GROUP 1645

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
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		FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	AL						
	AM						
	AN						
	AO						
	AP						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
AR	Straley, S.C., and W.S. Bouwer. 1986. "Virulence genes regulated at the transcriptional level by Ca ²⁺ in Yersinia pestis include structural genes for outer membrane proteins." INFECT. IMMUN. 51:445-454.	
AS	Sodeinde, O.A., et al. 1988. "Plasminogen activator/coagulase gene of Yersinia pestis is responsible for degradation of plasmid-encoded outer membrane proteins." INFECT. IMMUN. 56:2749-2752.	
AT	Ure, T., and R.R. Brubaker. 1984. "Roles of V antigen in promoting virulence and immunity in yersiniae." J. IMMUNOL. 133:2226-2230.	

EXAMINER 	DATE CONSIDERED 4/22/04
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FORM PTO-1449 (MODIFIED) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. MSUN 0105 PUS	SERIAL NO. 08/302,423
	APPLICANT Robert R. Brubaker, et al	
	FILING DATE September 8, 1994	GROUP 1886

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
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FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
AR	Ume, T., K. Nakajima, and R.R. Brubaker. 1986. "Roles of V antigen in promoting virulence in Yersinia." CONTRIB. MICROBIOL. IMMUNOL. 9:179-185.	
AS	Uhlen, M. B. Guss, et al. 1984. "Complete sequence of the staphylococcal gene encoding protein A." J. BIOL. CHEM. 259:1695-1702.	
AT	Ume, T., and R.R. Brubaker. 1984. "In vivo comparison of avirulent Vwa' and Pga' or Pst' phenotypes of yersiniae." INFECT. IMMUN. 43:895-900.	

EXAMINER Edw. L. Brubaker DATE CONSIDERED 4/22/04

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